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IN REPLY
REFER TO DLMSO

JAN 14 2003

MEMORANDUM FOR: SUPPLY PRC MEMBERS

SUBJECT: Approved DLMS Change (ADC) 89, Inclusion of Supplemental Information for Unique Item Tracking/Serialized Item Management (UIT/SIM) in the Two-Dimensional Symbol on the Issue Release/Receipt Document (IRRD) (DD Form 1348-1A) (Supply/MILSTRIP) (Staffed as PDC 83)

The attached change to DOD 4000.25-1-M, Military Standard Requisitioning and Issue Procedures (MILSTRIP), and DOD 4000.25-M, Defense Logistics Management System (DLMS), is approved for implementation effective immediately. This change will be incorporated in the next update to MILSTRIP and DLMS publications.

Addressees may direct questions to the DLMSO points of contact, Ms. Ellen Hilert, Chair, Supply Process Review Committee, 703-767-0676, DSN 427-0676, or email: ellen_hilert@hq.dla.mil or Ms. Vermella Savage, DoD MILSTRIP System Administrator, 703-767-0674, DSN 427-0674, or e-mail: vermella_savage@hq.dla.mil. Others must contact their Component designated representative (http://www.dla.mil/j-6/dlmso/Committees/Supply/supplyPRC.htm).

James A. Johnson

JAMES A. JOHNSON
Director
Defense Logistics Management
Standards Office

Attachment

cc:
DUSD (L&MR)
LMI

Inclusion of Supplemental Information for UIT/SIM in the
Two-Dimensional Symbol on the IRRD (DD Form 1348-1A)

1. ORIGINATOR:

a. Service/Agency: Navy, Naval Inventory Control Point, M0411

b. Originator: Ross Burton, NAVICP M0411 DSN 430-7016 or commercial 717-605-7016, e-mail: Ross_F_Burton@ICPMECH.NAVY.MIL

c. Co-Sponsor: Ellen Hilert, Supply PRC Chair, DLMSO/J-673, 703-767-0676 (DSN 427), email: ellen_hilert@hq.dla.mil

2. FUNCTIONAL AREA:

Primary: Supply MILSTRIP

3. RERERENCE: Approved DLMS Change (ADC) 44, Two-Dimensional Symbol on Issue Release/Receipt Document (DD Form 1348-1A), published in MILSTRIP Formal Change 1, February 11, 2002

4. REQUESTED CHANGE:

a. Title: Inclusion of Supplemental Information for UIT/SIM in the Two-Dimensional Symbol on the IRRD (DD Form 1348-1A)

b. **Description of Change:** ADC 44 provided specifications for the two-dimensional symbol (Portable Data File (PDF) 417) on the IRRD, including the current linear bar code data elements plus additional elements. This proposal adds supplemental optional data fields to the PDF 417 2D symbol for the purpose of unique item identification. The optional data fields will allow for identification of the manufacturer, part, and specific individual item using a range of ANSI MH10.8.2 data identifiers, which may be employed as applicable to the requirement. The selected identifiers were chosen for their consistency with commercial practice and current and emerging DoD policy. Not all are applicable to the specific Navy implementation described in this change. Tailored implementation will be controlled by the Component for internal use or by inter-Component agreement pending adoption of formal DLMS procedures. The clear-text narrative applicable to the proposed PDF 417 data content will be carried in block 27 of the IRRD. This change allows for only one occurrence of such unique item identification per IRRD.

c. Limited Implementation: This proposal recognizes and perpetuates the 2D bar code data elements for UIT/SIM to the Navy where Navy-managed Depot Level Repairables are being returned and inducted for repair (retrograde). The Navy retrograde systems using these data elements include: Fleet Automated Control Tracking System, Advanced Traceability and Control, Web-MRIL Partnering Site and Reporting System, WEB-Commercial Asset Visibility, and Commercial Asset Visibility-Organic Repair Module. Because these systems primarily induct retrograde material in a quantity of one-piece part per document (1348-1A), the capacity of the 2D symbol will not be exceeded. Where material is inducted with a quantity greater than one per 1348-

1A, the Navy will not include the UIT/SIM data within the 2D symbol on the 1348-1A. These procedures are optional. Furthermore, this proposal only addresses the incorporation of new data requirements on the IRRD to support emerging policy/procedures on UIT/SIM and to position DoD to support commercial standards such as DUNS. This does not obligate Components to implement automated or manual interfaces to recognize, process, report, maintain, or perpetuate this information from the 2D symbol. Inter-Component agreements for automated or manual interfaces employing this data shall be pursued independently in conjunction with the implementation of DoD UIT/ SIM procedures pending adoption of formal DoD procedures.

5. PROCEDURES:

a. Modify MILSTRIP Appendix AP1.1, Forms/Message Formats (Introduction), paragraph AP1.1.6.6.3 (page AP1.1-8) to insert the following information

BLOCK ELEMENT NAME	**BLOCK SIZE/ NO. OF CHARACTERS**	**BLOCK NUMBER**
Additional Data ***Include clear-text unique item tracking/serialized item management information, e.g., manufacturer's CAGE, part number, and unique item identification, as reflected in the associated bar code/symbol.***	Variable	27

b. Modify MILSTRIP Appendix AP1.35, Issue Release/Receipt Document (IRRD) (1348-1A) With Three-Of-Nine Bar Coding And Two-Dimensional (PDF-417) Symbol, as shown in the enclosure.

c. DLMS Supplements (DSs). The following clarifying notes will be incorporated over time as other revisions to the DSs are adopted. Additional changes to incorporate other data elements supporting unique item identification will be addressed separately.

BT Batch Number **DLMS Note:** *1. Use to identify the batch number or the number identifying the production run.* *2. If translating to or from a PDF 417 2-Dimensional Symbol, this information will be reflected as the Traceability Number.*
LT Lot number **DLMS Note:** *1. Use to identify the manufacturer's lot number.* *2. If translating to or from a PDF 417 2-Dimensional Symbol, this information will be reflected as the Traceability Number. If both batch and lot numbers are reflected in this transaction both will be reflected within the Traceability Number.*

The following mapping notes are provided to further clarify how the differences between item identification should be processed.

ANSI MH10.8.2 Data Identifier		ANSI ASC X12 Data Qualifier	From Symbol - To DLMS
1T, Traceability Number	?	BT, Batch Number (includes other production run identification).	Traceability Number will always be moved to Batch Number regardless of actual type of identifying number reflected.

ANSI ASC X12 Data Qualifier		ANSI MH10.8.2 Data Identifier	From DLMS - To Symbol
BT, Batch Number (includes other production run identification). LT, Lot Number	}	1T, Traceability Number	If either Batch Number and Lot Number is present, the value will be moved to Traceability Number. If both numbers are present, both will be included within the traceability number.

6. REASON FOR CHANGE:

The Navy requires the capability to uniquely identify repairable components on an intra-service basis. Adding the component unique item identifier (UII), CAGE, and part number to the DD Form 1348-1A will facilitate carcass tracking, component induction and disposal, document reconciliation, and more. This proposal is being driven by requirements of the Navy's Aviation Maintenance Supply Review and is viewed as a critical component in the fight to reduce the cost of depot level repairables. The inclusion of data identifiers for serial number (DOD UII), CAGE, and part number in the 2D symbol will also assist the Navy and DoD to meet the requirements set forth in DoD Materiel Management Regulations 4140.1-R, Chapter 6.3.2; these regulations establish that - in the future - UIT data is to be exchanged using standard DoD logistics transactions and systems for individual items across the supply chain.

7. ADVANTAGES AND DISADVANTAGES:

a. Advantages: The addition of UII, CAGE, and part number to PDF 417 2D symbol will improve Navy's operational readiness and reduce costs by:

- ? Eliminating the necessity to open containers to screen for UII
- ? Allowing targeted induction of item by UII
- ? Allowing targeted disposal of item by UII
- ? Assisting document reconciliation
- ? Assisting in screening for engineering investigations/hazardous material requests

b. Disadvantages: None identified

8. IMPACT:

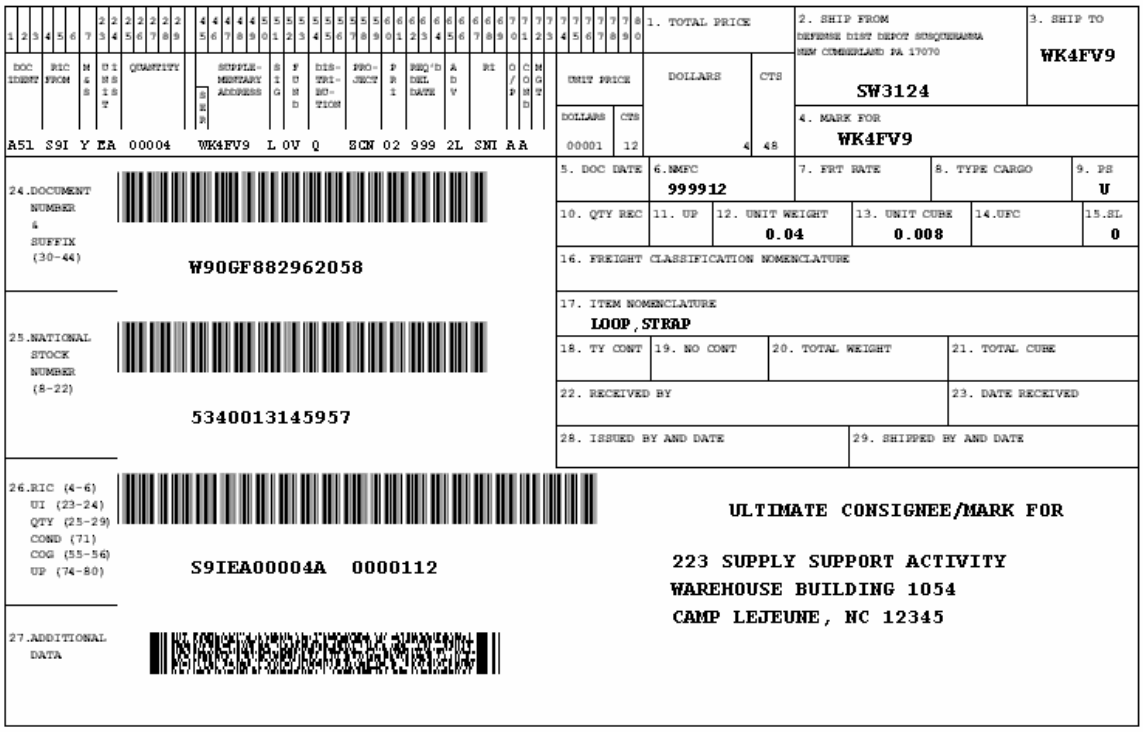
a. Short Term: Using this UIT data is optional and subject to each Component's own internal business rules and inter-Component agreements.

b. Long Term: Before UII, CAGE, and part number are fully implemented and used within the context of 2D symbol, the UIT operating procedures and capabilities for reporting Navy UII data at DLA Defense Distribution Depots will have to be refined and finalized. The DoD Unique Item Tracking Committee is currently developing procedures to receipt, store, and issue by NSN and UII. As DoD policy is revised/defined to require entry of additional data for unique item identification, the UIT procedures will be adjusted to reflect the new requirements as applicable. The Navy also recognizes that they will need to use PDF 417-compliant labels on their repairable items in order to take advantage of having the UII, CAGE, and part number on the 2D symbol. Publications affected include:

- NAVSUP P-485
- DoD 4000.25-1-M, MILSTRIP and DoD 4000.25-M DLMS
- MIL-STD-1189
- MIL-STD-129P
- Navy Requirements and Procedures for DoD Unique Item Tracking (UIT)

AP1.35 APPENDIX 1.35

ISSUE RELEASE/RECEIPT DOCUMENT (IRRD) (1348-1A) WITH THREE-OF-NINE BAR CODING AND TWO-DIMENSIONAL (PDF-417) SYMBOL



[Note: Above sample for illustration only. Implemented version may differ in placement and size of 2-D symbol].

Two-Dimensional (PDF-417) Label Format

Compliance Character	Data Identifier/ Data Element Identifier [1/]	Data Field (DoD Usage)	Data Format (Type/Length)	Sample Data (Identifier and Data Field)	Element Separators	Total Characters [2/]
[]>		Format Header Text	a3	[]>	RS	4
06		**Data Identifier Format** (ANSI Standard)	n2	06	GS	3
	12S	**Document Number** Includes Suffix Code when applicable	an14..an15	12SM1200120010001A	GS	19
	N	**National/NATO Stock Number (NSN) or Stock Identification Elements** May reflect NSN, CAGE Code/part number, FSC, etc., as applicable. May also include associated coding, e.g., Type of Pack, USN Special Material Identification Code (SMIC) or USAF Materiel Management Aggregation Code (MMAC) ***This data content is analogous to the MILSTRIP stock number field. For unique item tracking/serialized item management, use this identifier for the NSN and use separate identifiers listed below to uniquely identify a specific individual item.***	an..15	N7420014522690	GS	17
	7Q	**Quantity and Unit of Issue** Do not include leading zeros	An..5+an2	7Q1EA	GS	10
	V	**Routing Identifier Code**	an3	VML1	GS	5

[1/] "**Data Identifiers**" (Compliance Character 06) pertain to American National Standards Institute (ANSI) authorized data elements. Refer to ANSI MH10.8.2, American National Standard for Material Handling, for additional information. "**Data Element Identifiers**" (Compliance Character 07) pertain to DoD authorized data elements. Refer to www.dodait.com for additional information.

[2/] "**Total Characters**" reflects length of data identifier/data element identifier + data field + element separator.

	2R	**Condition Code**	an1	2RA	G S	4
	12Q	**Unit Price** Configured as 5 digits whole dollars, decimal, and 2 digits cents followed by "USD" indicating U.S. dollars. Do not include leading blanks.	n..5.n2+an3	12Q1234567.12USD	G S	15
	5P	**National Motor Freight Classification Commodity Number**	n6	5P999912	R S	9
	S	***Serial Number*** ***The unique item identifier (UII) assigned by the supplier (or DoD) to an entity for its lifetime.***	***an..15***	***S123TS001100223***	***GS***	***17***
	1T	***Traceability Number*** ***Assigned by the supplier (or DoD) to identify/trace a unique group of entities (e.g. lot, batch, etc.). May be used separately or in conjunction with UII.***	***an..17***	***ITMGU12345***	***GS***	***20***
	17V	***Commercial and Government Entity Code (CAGE).*** ***The manufacturer's CAGE for the identified item.*** ***[Optional alternative manufacturer identification may be used by Component agreement only.*** ***If Dun & Bradstreet Data Universal Numbering System (DUNS) number, use identifier 12V.*** ***If European Article Numbering/Uniform Code Council (EAN.UCC) code, use identifier 2V.]***	***an5*** ***[an5..9]*** ***[an6..9]***	***17V12345*** ***[12V12345]*** ***[2V123456]***	***GS***	***9*** ***[13]*** ***[12]***
	1P	***Part Number*** ***The part number assigned by the manufacture/supplier.***	***an..16***	***1P9988771212SP***	***GS***	***19***
07		**Data Identifier Format** (ANSI Free Text)	n2	07	G S	3
	03	**Project Code**	an3	031CF	G S	6
	B6	**DoD Distribution Code** Three-position field must reflect blanks as applicable. Blanks may be located in any position.	an3	B6_7V	G S	6
	27	**Consignee DoDAAC** Reflects ship-to DoDAAC (Block 3)	an6	27M12001	G S	9
	38	**Nomenclature**	an..20	38Oil_Filter	G S	23
	32	**Required Delivery Date (RDD)** May reflect RDD in DDD format or special codes, e.g., expedited shipment and	an..3	32999	G S	6

		handling (Code 999), Not Mission Capable Supply (NMCS) (Code N__), etc.				
	B7	**Requisition Priority Designator (PD)**	n2	B703	$^{G}_{S}$	5
	B8	**Partial Shipment Indicator**	a1	B8P	$^{G}_{S}$	4
	81	**Supplementary Address** Derived from rp 45-50 of the requisition	an6	81M12003	$^{R}_{S}$ **EOT**	10
Total Possible Characters Required Including Formatting						226

All data identifiers are alphanumeric characters.

a = Alphabetic Data

an = Alphanumeric Data

n = Numeric Data

.. = Variable Length (up to maximum shown)

$^{R}_{S}$ = Nonprintable hexadecimal code indicating next entry is a new compliance character indicating a new data identifier format follows

$^{R}_{S}$ **EOT** = Nonprintable hexadecimal code indicating end of transmission

_ = Denotes a blank in sample data above

Sample data stream:

[)>$^{R}_{S}$06$^{G}_{S}$12SM1200120010001A$^{G}_{S}$N7420014522690$^{G}_{S}$7Q1EA$^{G}_{S}$VML1$^{G}_{S}$2RA$^{G}_{S}$ 12Q1234567.90USD $^{G}_{S}$5P999912 $^{R}_{S}$
07$^{G}_{S}$031CF$^{G}_{S}$B6 7V$^{G}_{S}$27M12001$^{G}_{S}$38Oil Filter$^{G}_{S}$32999$^{G}_{S}$B703$^{G}_{S}$B8P$^{G}_{S}$ 81M12003 $^{R}_{S}$ **EOT**

Sample PDF 417 symbol (contents do not match above data stream - for illustrative purpose only):

(Estimated Size)